

P/8248/US/CA

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ABSTRACT J 2le Disclosure

## -RANGING SYSTEMS

A continuous wave ranging system, comprising a modulator 2 for modulating an r.f. carrier wave in accordance with a pseudo random code, a transmitting antenna 5 for radiating the modulated signal towards target, a receiving antenna 6 and receiver 7 for detecting the signal reflected back from the target, a correlator 8 for correlating the reflected signal with the transmitted code with a selected phase corresponding to the current range gate to be tested, whereby the range of the target from the system may determined, a store 12 containing a plurality different pseudo random codes, and selector means 13 arranged to supply to the modulator 2 and to the correlator 8 a code from the store 12 whose sidelobe <del>characteristics are suitable for</del> the next range gate or gates to be tested.

CONFIDENCE AGENCY
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